

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/570,121
Source: JFWP
Date Processed by STIC: 11/17/2006

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/17/2006

PATENT APPLICATION: US/10/570,121

TIME: 08:38:11

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

```

3 <110> APPLICANT: APPLIED RESEARCH SYSTEMS ARS HOLDING N.V.
5 <120> TITLE OF INVENTION: NOVEL UBP8rp POLYPEPTIDES AND THEIR USE IN THE TREATMENT OF
PSORIASIS
7 <130> FILE REFERENCE: WO 886
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/570,121
C--> 9 <141> CURRENT FILING DATE: 2006-02-28
9 <160> NUMBER OF SEQ ID NOS: 79
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 7260
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
18 <220> FEATURE:
19 <221> NAME/KEY: exon
20 <222> LOCATION: (851)..(1017)
21 <223> OTHER INFORMATION: exon 1
24 <220> FEATURE:
25 <221> NAME/KEY: Intron
26 <222> LOCATION: (1018)..(1046)
27 <223> OTHER INFORMATION:
29 <220> FEATURE:
30 <221> NAME/KEY: exon
31 <222> LOCATION: (1047)..(1675)
32 <223> OTHER INFORMATION: exon 2
W--> 35 <220>
36 <221> NAME/KEY: Intron
37 <222> LOCATION: (1676)..(1718)
38 <223> OTHER INFORMATION:
40 <220> FEATURE:
41 <221> NAME/KEY: exon
42 <222> LOCATION: (1719)..(2371)
43 <223> OTHER INFORMATION: exon 3
W--> 46 <400> 1
47 tgttatgtag tcttttggtt ggtctctccc ttagcataac gatggttgag atgatgccat 60
49 tcattcattt ttgttgctga gcagctgccg agtattggtg gaatcccagt ttattcattg 120
51 gtttctgtgt ctccagttga tagacatgtg gattcctcca gttagggttt gttattaatg 180
53 aagccactat aaataactgc ttacaagtgt ggacttacat ttttatttct tttggataaa 240
55 tacgtatttg tggaattgct gggccatgtg gtaatagatg ggtaactgta taagaaactg 300
57 ccataccact ttacaaattg gctgccacat tttttgcatt cctaccagca atatcagaca 360
59 ttcctatttt ttccatattc ttgccagtgt taagacttat catatgtctt ttttaacttta 420
61 tctgctctag gtgatgtgtg atgggtttctc attgtgggtt taacttgcac ttctttgatg 480
63 actagtattg ttgctatctt tttcatgttc atctaagcga cttattacat atattttatg 540
65 aactattttg caaattcaat gattaattcc agagactttt tcagaattcc ctagtgtttt 600
67 ctacatatat aatgaagttg gtgacaaaga aagactttca tttcttcctt tcttatccat 660

```

RAW SEQUENCE LISTING

DATE: 11/17/2006

PATENT APPLICATION: US/10/570,121

TIME: 08:38:12

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

```

69 tgatcttttt ttttttaaaa ttattattat ttggtagaga tgaggtctca cttatcaggc 720
71 tgggtctcaaa ctctgatct caagtgatcc tcccacctca gctcccaaaa atgcagggat 780
73 tacaggcatg agccaccatg cctgggtcctt gttgcactgg ttaggatgac tgtaggtgt 840
75 ttaaacaaga atg atg aga gct cac atg ttt gtt tac aag gaa ctt aaa 889
76 Met Met Arg Ala His Met Phe Val Tyr Lys Glu Leu Lys
77 1 5 10
79 caa att tac aag aaa aaa acc cat ccc cat caa aaa gtg ggc aaa gga 937
80 Gln Ile Tyr Lys Lys Lys Thr His Pro His Gln Lys Val Gly Lys Gly
81 15 20 25
83 tat aaa cag aca ctt ctc aga gga aga cat tta cgt ggc caa gaa aca 985
84 Tyr Lys Gln Thr Leu Arg Gly Arg His Leu Arg Gly Gln Glu Thr
85 30 35 40 45
87 tat gaa aaa aag ctc aca cac gta tat gaa ac gtgactgttt ataatectat 1037
88 Tyr Glu Lys Lys Leu Thr His Val Tyr Glu Thr
89 50 55
91 ccaaaaaaag a act gat ttc aag caa cag cag tat tac ttc cat tca ata 1086
92 Thr Asp Phe Lys Gln Gln Gln Tyr Tyr Phe His Ser Ile
93 60 65
95 ctt gga cct gca aac atc aaa aaa gcc act gga gaa act gaa cga ctc 1134
96 Leu Gly Pro Ala Asn Ile Lys Lys Ala Thr Gly Glu Thr Glu Arg Leu
97 70 75 80 85
99 tct gaa agc ctt aaa cta aga tat gaa gaa gtt gaa atc tgg aaa aaa 1182
100 Ser Glu Ser Leu Lys Leu Arg Tyr Glu Glu Val Glu Ile Trp Lys Lys
101 90 95 100
103 ctt gag gaa aag gac agg cag ggg gaa gca cag tgg cta caa caa aaa 1230
104 Leu Glu Glu Lys Asp Arg Gln Gly Glu Ala Gln Trp Leu Gln Gln Lys
105 105 110 115
107 agg cag gaa aca gga aga gag gat ggc agc atg ttg gct aaa ggt tct 1278
108 Arg Gln Glu Thr Gly Arg Glu Asp Gly Ser Met Leu Ala Lys Gly Ser
109 120 125 130
111 ttg gag att gta ttg gat tcc aaa gac aaa acc caa aag agc aat ggt 1326
112 Leu Glu Ile Val Leu Asp Ser Lys Asp Lys Thr Gln Lys Ser Asn Gly
113 135 140 145
115 gaa aag aat gaa aaa tgt gag acc aaa gag aaa gga gca atc aca gca 1374
116 Glu Lys Asn Glu Lys Cys Glu Thr Lys Glu Lys Gly Ala Ile Thr Ala
117 150 155 160 165
119 aag gaa cta tac aca atg atg atg gat aaa aac atc agc ttg att ata 1422
120 Lys Glu Leu Tyr Thr Met Met Met Asp Lys Asn Ile Ser Leu Ile Ile
121 170 175 180
123 atg gat gct caa aga atg cag gat tat cag gat tcc tgt att tta cat 1470
124 Met Asp Ala Gln Arg Met Gln Asp Tyr Gln Asp Ser Cys Ile Leu His
125 185 190 195
127 tct ctc agt gtt cct gaa aaa gcc atc agt cca gga gtc act gct agc 1518
128 Ser Leu Ser Val Pro Glu Lys Ala Ile Ser Pro Gly Val Thr Ala Ser
129 200 205 210
131 tgg att gaa gca cac ctc cca gat gat tct ata gat aca tgg aag aag 1566
132 Trp Ile Glu Ala His Leu Pro Asp Asp Ser Ile Asp Thr Trp Lys Lys
133 215 220 225
135 agg ggg aat gtg gag tat atg gta ctt ctt gac tgg ttt agt tct gca 1614

```

RAW SEQUENCE LISTING

DATE: 11/17/2006

PATENT APPLICATION: US/10/570,121

TIME: 08:38:12

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

```

136 Arg Gly Asn Val Glu Tyr Met Val Leu Leu Asp Trp Phe Ser Ser Ala
137 230          235          240          245
139 aaa gat tta cag att gga aca aca ctc tgg cat ctg aaa gat gca ctt 1662
140 Lys Asp Leu Gln Ile Gly Thr Thr Leu Trp His Leu Lys Asp Ala Leu
141          250          255          260
143 ttc aag tgg gaa a gtaaaactgt cctgtgcaat gggccttggg cctttggttt tag 1718
144 Phe Lys Trp Glu
145          265
147 ag gga ggc tat aaa aac tgg ttc ctt tgc tat tcc cag tat aca aca 1765
148 Lys Gly Gly Tyr Lys Asn Trp Phe Leu Cys Tyr Ser Gln Tyr Thr Thr
149          270          275          280
151 aat gct aag gtc act cca ccc cca caa cac cag aat gaa gag ttg tct 1813
152 Asn Ala Lys Val Thr Pro Pro Pro Gln His Gln Asn Glu Glu Leu Ser
153          285          290          295
155 atc tca ttg gat ttt act tat ccc tca ttg gaa gaa tca att cct tct 1861
156 Ile Ser Leu Asp Phe Thr Tyr Pro Ser Leu Glu Glu Ser Ile Pro Ser
157          300          305          310
159 aaa cct gct gcc gag atg cca cct cca cct ata aaa gtg gat gaa gac 1909
160 Lys Pro Ala Ala Glu Met Pro Pro Pro Pro Ile Lys Val Asp Glu Asp
161          315          320          325
163 ata gaa ttg ata agt gat caa ata agt gat aat gat caa aat gag agg 1957
164 Ile Glu Leu Ile Ser Asp Gln Ile Ser Asp Asn Asp Gln Asn Glu Arg
165 330          335          340          345
167 aca gga cca ctg aat ata tca att cca gtt gaa tca gtt gct gct tct 2005
168 Thr Gly Pro Leu Asn Ile Ser Ile Pro Val Glu Ser Val Ala Ala Ser
169          350          355          360
171 aaa tct gat gtt tca ccc atc att cag cca gtg cct agc ata aag aat 2053
172 Lys Ser Asp Val Ser Pro Ile Ile Gln Pro Val Pro Ser Ile Lys Asn
173          365          370          375
175 gtt cca cag att gat cat act aaa aaa ctg gca gtc aaa ttg cct gaa 2101
176 Val Pro Gln Ile Asp His Thr Lys Lys Leu Ala Val Lys Leu Pro Glu
177          380          385          390
179 gag cat ata atc aaa tct gaa agt aca aat cat gag caa cag tct cct 2149
180 Glu His Ile Ile Lys Ser Glu Ser Thr Asn His Glu Gln Gln Ser Pro
181          395          400          405
183 cag aat gaa aaa gtt att cct gat tgt tcc acc aag cca gta gtt tcc 2197
184 Gln Asn Glu Lys Val Ile Pro Asp Cys Ser Thr Lys Pro Val Val Ser
185 410          415          420          425
187 tct cca act ctc atg tta aca gat gaa gaa aag gct cat att cat gca 2245
188 Ser Pro Thr Leu Met Leu Thr Asp Glu Glu Lys Ala His Ile His Ala
189          430          435          440
191 gaa act gct ctt cta atg gag aaa aac aaa caa gaa aaa gaa ctt cag 2293
192 Glu Thr Ala Leu Leu Met Glu Lys Asn Lys Gln Glu Lys Glu Leu Gln
193          445          450          455
195 gaa aga cag caa ggg aaa cag aaa gaa act gag gag gga aga aca cga 2341
196 Glu Arg Gln Gln Gly Lys Gln Lys Glu Thr Glu Glu Gly Arg Thr Arg
197          460          465          470
199 gca aaa agc caa aaa gaa aca aga agc tga agaaaatgaa attacacaga 2391
200 Ala Lys Ser Gln Lys Glu Thr Arg Ser

```

RAW SEQUENCE LISTING

DATE: 11/17/2006

PATENT APPLICATION: US/10/570,121

TIME: 08:38:12

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

201	475	480					
203	agcaacaaaa	agcaaaagaa	gaaatggaga	agaaagaacg	tgaacaggcc	aagaaagagg	2451
205	ataaagaaat	ctcagcaaag	aagggcaaag	aaataacaag	agtaaaaaga	caaagtaaaa	2511
207	gtgatcatga	aacctctggt	gccgagaagt	ctgtagagga	cagggggaga	agatgttcaa	2571
209	ccccagaagt	acagaaaaag	tcaacaagag	atgtgtccca	tacatctgcg	acaggggatt	2631
211	caggttcagg	caagcctttt	aagattaaag	gacaaccaga	aactggaatt	ctaaggacag	2691
213	aaacttttag	agaggatata	gatgatactt	aaagaaataa	aactcaacga	gaaccttcga	2751
215	taatagcacg	aagtgaagaa	atggggagga	tgggtaccagg	actgccttca	ggctgggcca	2811
217	agttttcttg	tccaatcact	ggaacgtttc	attattatca	ttcaccacta	acactgttca	2871
219	tatgtaccca	ctggaaatgg	ctccttcate	tgcacctcct	tccacccttc	caactcataa	2931
221	aggcaagcca	cagattcctg	ctaagcagga	tagggaacct	tccaaactga	aatgctctta	2991
223	ctcctcccca	gatataaccc	aggctattca	agaggaagcc	agcagtaact	ccaacagtta	3051
225	atcaggaaga	caagccaaca	tgctacccta	aagctgagat	ctcaaggctt	tctgcttctc	3111
227	agattttgaa	actcaatcct	gtttttggag	gttctggacc	agctcttact	ggacttcgta	3171
229	acttaggaaa	tacttgttat	atgaactcaa	tattgcagtg	cctatgtaat	cctccacatt	3231
231	tggctgatta	tttcaaccga	aactgtttat	aggatgatat	taacaagtca	aatttggttag	3291
233	gggcataaag	gtgaagtggc	agaagaatth	ggtataatca	tgaaagcccc	gtggacagga	3351
235	cagtatatag	atatcagtcc	aaaagacctt	aaagtcacca	ttgggaagat	caattaccag	3411
237	tttgaggat	acagtcaaga	ttcacaagaa	tttcttctgt	tcctaattga	tgggtctccat	3471
239	gaagatctaa	ataaaactga	taatcggaag	acataataag	aagaaaataa	tgatcatctc	3531
241	aatgacttta	aagctgcaga	acatgcctgg	cagaaacaca	agcggctcta	tgagtctatt	3591
243	attgttgcac	tttttcaggg	tcaattcaaa	tctacagtac	agtgcctcac	ccgtcacaaa	3651
245	aagtctagga	cacttgaggc	cttcatgtat	ttgtctctac	tgatagcatc	cacaagtaaa	3711
247	tgtacattat	aggattgcct	tagattatth	tctaagaag	aaaaactcat	agataataac	3771
249	agattttact	gcaatctttg	cagagctcga	cgggattcct	aaaaaagaaa	tctggaagtt	3831
251	accacctgtg	cttttagtgc	atctgaaaca	tttttcctac	aatggcaggt	ggaaacaaaa	3891
253	attacagaca	tctgtggact	tcccgttaga	aaatcttgcc	ttgtcacagt	atgttattgg	3951
255	tccaaagaac	aatttgaaga	aatataatth	gttttctggt	tcagatcact	gcgggtgggt	4011
257	ggatggaggc	cattacacag	cctactgtaa	aaatgcagca	aaacagcggg	ggtttaagtt	4071
259	tgtgatctga	gaagtctctg	atatctctgt	ttcttctgtg	aaatcttcag	cagcttatat	4131
261	cctcttttat	acttctttgg	gacctatggt	aactgatgta	ggcacataag	gagacatagg	4191
263	ttataaacta	gttatctttt	aaaaggctca	gcaacacaat	tcttgaaatg	cttatcaaga	4251
265	tagtggtagc	aatagctggc	catttagagg	aattctagga	cagtgggagc	tgtgttacta	4311
267	gcactatata	attcctgtca	gtggtgacaa	ataacactta	acaagtattg	cagtaagcat	4371
269	cacttacagg	taccatttat	ttcaaaacaa	cttttttagt	ctgctccaaa	gttaaaataa	4431
271	ttactagct	aagcattatt	attctactgg	tctaaaaacc	tttgtaccct	ttttttcctt	4491
273	ttcactgtta	cagccttttc	acatttctaa	atcccactct	catatactat	gaatactcta	4551
275	gaatgatgtg	aagcagatag	gaatgtatgt	gtacatatth	attgcatact	tacacatcaa	4611
277	atcgatatac	atagtttaac	atgtggtcct	ttcgtgaaac	ttagaactca	gaggattgca	4671
279	tttttttctt	tgagcatatt	ttgagtaact	gcagtgcctt	cttagggaaa	tgacagggca	4731
281	aagctattht	tctgttggct	ttgggggcat	ttgggtgcgc	taaatcttta	tcttaaaaaa	4791
283	taaatggaaa	cttcctttta	ttttttaaaa	tgagacatta	aaatcttaat	gagaaaaaatt	4851
285	taaaaagctc	aatatcactg	ctcattagag	aaatgtaaat	caaagccaca	atgagatacc	4911
287	atctcccacc	agtcagaatg	gtaattatta	aaaagtcaag	aaacaataga	tgctgggtgag	4971
289	gctgtggaga	aataggaaca	cttttacact	gttgttggga	atgtaaacta	gttcaaccat	5031
291	tgtggaagac	agtgtggcca	ttcctcagag	atctagaacc	agaaatacta	tttgaccctt	5091
293	tgggtatcta	cccaaaggaa	tataaatcat	tctactataa	agacacatgc	acacgtatgt	5151
295	ttactgcagc	actatttaca	atagcaaaga	cttggaaacca	acccaaatgt	ccatcagtga	5211
297	tagatggata	aagaaaatgt	ggtgcatacc	accatggaat	agtacacagc	cagaaaaagg	5271

RAW SEQUENCE LISTING

DATE: 11/17/2006

PATENT APPLICATION: US/10/570,121

TIME: 08:38:12

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

```

299 aatgagttca tgtcctttgc agggacatgg atgaagctgg aagtcacat cctcagcaaa 5331
301 ctaacacggg aacagaaaac aaagcacctc atgttctcat tcctaagtga gagttgaaca 5391
303 atgacaacac atggacacag ggaggggaac aacacatata agggcctttt ggggagtggtg 5451
305 gggggcaagg gacgagaact tagaggatgg gtcaataggt gcagcaaacc accatggcag 5511
307 actatacgca tgaatacaaac ctgcaggttc tgcacatgta tcctggaacc taaagtaaaa 5571
309 taaaacaaag caaattaaaa aaagaaagcc catgtcttac atgtatgcat atgttcattg 5631
311 cagcactatt cacaatagca aagacatgga atcaacctaa atgtccatca atggtagact 5691
313 ggataaagaa aatgtggcaa atatgctcta ccggcaggat ttgatggcgt gatgtctcac 5751
315 agaaagttct ccaactccag acatgggtcc ctcggtctcc tgccttgga gacagcagc 5811
317 aggcacgtg ggaaggtgaa gagcttccct aaggatgacc catccaagcc ggtccacctc 5871
319 acagccttcc tgggatacaa ggctggcatg acccacatcg tgcgggaagt cgacaggcca 5931
321 ggatccaagg tgaacaagaa ggaggtggtg gaggtgtgga ccattgtgga gaggccacca 5991
323 gtgggcattg tgggtgcgt ggaacccct caaggcttcc ggacttgcaa gactgtcttc 6051
325 gctgagcaca tcagtgatga atgcaagagg cgtttctata agaactggca taaatctaag 6111
327 aagaaggcct ttaccaagta ctgcaagaaa tggcaggatg aggatggcaa gaagcagctg 6171
329 gagaaggact tcagcagcat gaagaagtac tgccaagtca tctgcgtcat tgcccacacc 6231
331 cagatgcacc tgccttctct gtgccagaag aaggcccacc tgatggagat ccaggatgaat 6291
333 ggaggcactg tggttgagaa gctggactgg gctggcgaga ggtccaagca ccaggtaact 6351
335 gtgaaccaag tgtttgggca ggatgagatg atcgacgtca tcagggtgac caagggcaaa 6411
337 ggctacaaaa gggtcaccag tcattggcac accaagaagc tgccccgcaa gaccaccaa 6471
339 ggctgtgca aggtggcctg tattggggca tggcatcctg ctctgtgtggg cttctctgtg 6531
341 gtacgtggtg ggcagaaagg ctaccatcac cgcactgaga tcaacaagat ctataggatt 6591
343 ggctagggct accttatcaa ggatggcaag ctgatcaaga acaatgcctc cactgactat 6651
345 gacctgtctg acaagagcat caaccctttg ggtggcttcg tccactatgg tgaagtgacc 6711
347 aatgactttg tcatgctgaa aggtgtgtg gtgggaacca agaagtgggt gctcaccctc 6771
349 cacaagtcct tgctggtgca gacaaagcag cgggctctgg agaagattga ccttaagttc 6831
351 attgacacct cctccaagtt tggccatggc cgcttccaga ccacggagga gaagaaagca 6891
353 ttcattgggac cactcaagaa agaccgaatt gcaaaggaag aaggagctta atgctgggaa 6951
355 cagatattgc aactggtggg atctcaataa aagttatttt ccattaaaaa aaaaagaaaa 7011
357 agaaaatgtg gcacatatac accacagaat accatgcagc cataaaaaag aatgagatca 7071
359 tgtcctttgc aggaacatgg atggagttgg aggccattat ccttagcaaa ctgaggcagg 7131
361 aacagaaaac caattaccac atgttctcac ttataagtag gagttatatg atgagaacac 7191
363 atggacacac agaagggaac aacacacact ggggtccact tgagggtaga ggggtggagg 7251
365 agggagagg 7260

```

368 <210> SEQ ID NO: 2

369 <211> LENGTH: 1449

370 <212> TYPE: DNA

371 <213> ORGANISM: Homo sapiens

373 <220> FEATURE:

374 <221> NAME/KEY: CDS

375 <222> LOCATION: (1)..(1449)

376 <223> OTHER INFORMATION:

378 <220> FEATURE:

379 <221> NAME/KEY: misc_feature

380 <222> LOCATION: (1)..(167)

381 <223> OTHER INFORMATION: exon 1

W--> 384 <220>

385 <221> NAME/KEY: misc_feature

386 <222> LOCATION: (168)..(796)

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/570,121

DATE: 11/17/2006
TIME: 08:38:13

Input Set : F:\ARS-125-SEQ LIST.txt
Output Set: N:\CRF4\11172006\J570121.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30

Seq#:31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,57,58,59

Seq#:60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/570,121

DATE: 11/17/2006

TIME: 08:38:13

Input Set : F:\ARS-125-SEQ LIST.txt

Output Set: N:\CRF4\11172006\J570121.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:27
L:46 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:38
L:384 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:376
L:1523 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:52,Line#:1516
L:1871 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:55,Line#:1869